

Transition and the Asia Pacific IPv6 Taskforce Tony Hill

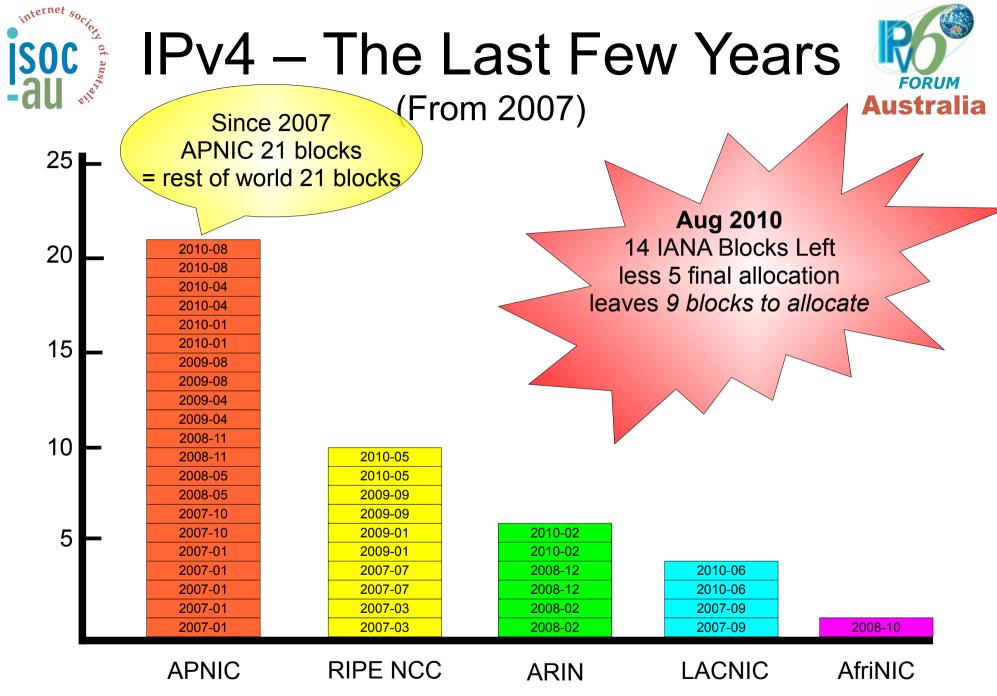


Asia Pacific IPv6 Task Force Internet Society of Australia IPv6 Special Interest Group IPv6 Forum Downunder www.isoc-au.org.au





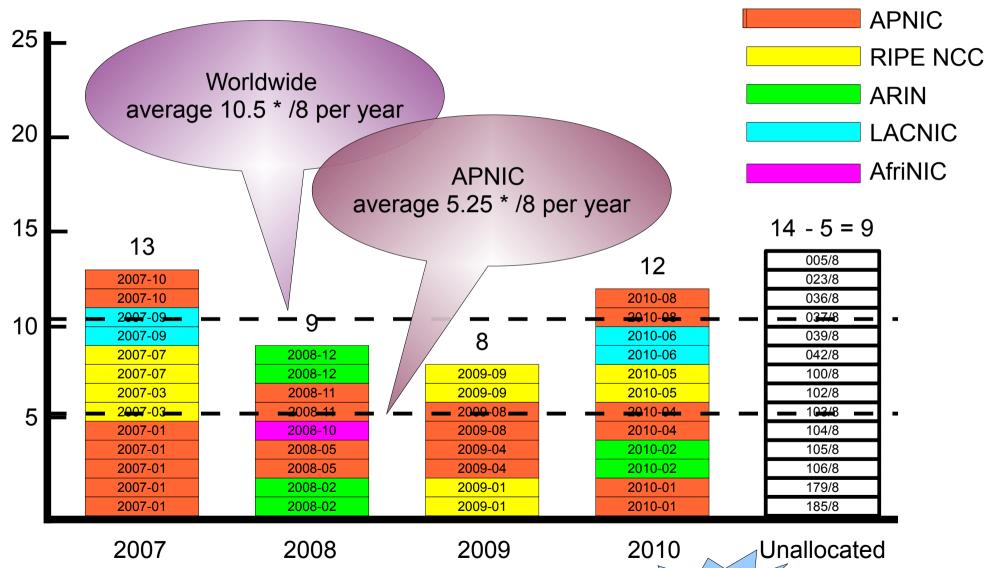
- ISOC-AU President 2001 ongoing
- National ICT Industry Alliance
 - Chair 2005-07
- Australian IPv6 Summit Chair 2005 ongoing
- Australasian Research Management Society
 - President 2007
- Capital Hill Consulting Pty Ltd
 - founder 1999 ongoing
- IPv6 Now Pty Ltd founder 2007 ongoing
- AP IPv6 Task Force Chair 2010 ongoing
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IPv4 – The Last Years?







Asia-Pacific **THE** Action Point



- Asia Pacific has been the region of the most action for depletion of IPv4 addresses having used 6 blocks of addresses this year.
- What role can the Asia Pacific IPv6 Task Force play in building the international collaboration necessary for this huge task?



AP IPv6 Task Force



- Linking all economies of the Asia Pacific Region
- Regular gatherings and meetings
 - Effective remote participation
 - Next gathering: Taiwan, Dec 2010
 - Next meeting: APRICOT, Hong Kong, Feb 2011
- THE forum for exchange of ideas about IPv6
- Next 24 months will be key for IPv6 implementation
- Open for input from all issues for discussion?



IPv4 - Exhausted???



- Would there be a market for sale and purchase of IPv4 addresses?
- What needs to happen between now and 2012?
- How can we rebuild the whole worldwide Internet so quickly?
- Do we have the tools and skills that we need?
- Who has developed effective transition strategies for IPv6?



Market for IPv4 addresses?



- Globally routable IPv4 addresses needed for dual stack
- There is no formal market structure
- There are un-used (not advertised) IPv4 allocations
- Minimum size for global routing without filtering
 /24? /16?
- What would people buy or trade?
 - Blocks of /24 or larger
 - Whole companies (with IPv4 allocations)
- For how long would trading be a practical solution?



Between Now and 2012



- There are two Internets: IPv4; IPv6
 - Economies remaining on IPv4-only risk being left behind
- OECD Seoul Meeting June 2008
 - Internet Address Space DSTI/ICCP(2007)20/FINAL
- IPv6 Roadmaps 2012 deadlines
 - Japan, S Korea, USA, Europe, China, India, Australia
 - Most recent: USA OMB, 28 Sep 2010: external servers IPv6 by 2012



Rebuild the Worldwide Internet



- Dual-stack is the recommended approach
- The global IPv6 mesh is beginning to close
 - IPv6 traffic could approach 5% soon
- Higher end equipment is dual stack
 - Some CPE is beginning to be IPv6 capable
- New skills are required!
 - The 'IPv4 cookbook' approach won't work here
- Services and support are available



Tools and Skills

FORUM Australia

- Network Design & Engineering
- Network Administration
- System Administration & Security
- Applications Development
- Compliance & Testing
- Network Management Tools
- Audit of Hardware & Software
- Consultancy & Support











Transition! or Adoption?



- Transition = move from IPv4 to IPv6
- Adoption = uptake of IPv6
- Will IPv6 replace IPv4? When will that happen?
- All economies (and businesses, organisations and individuals) need an adoption strategy!



Questions?



- Asia Pacific IPv6 Task Force
 - www.ap-ipv6tf.org
- Internet Society of Australia
 - www.isoc-au.org.au
 - president@isoc-au.org.au
- IPv6 Forum
 - www.ipv6forum.org.au
 - president@ipv6forum.org.au



